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Substitute for form 1449PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete If Known	
				Application Number	10/661,099
				Filing Date	September 12, 2003
				First Named Inventor	Andrew Vaillant et al.
				Art Unit	1648
				Examiner Name	Louise Wang Zhiying HUMPHREY
				Sheet	2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
↓	I.H	US-4,469,863			
		US-5,610,289			
		US-5,256,775			
		US-5,366,878			
		US-5,476,925			
		US-5,023,243			
		US-5,130,302			
		US-5,177,198			
		US-5,378,825			
		US-5,386,023			
		US-5,489,677			
		US-5,264,562			
		US-5,264,564			
		US-5,223,618			
		US-5,770,713			
		US-5,543,152			
		US-4,426,330			
	US-4,534,899				
	US-5,705,188				
	US-5,013,556				

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant Of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Country Code 3 – Number 4 – Kind Code 5 (if known)			
LH		WO 90/04384			
		WO 97/30731			
		EP 0 496 813 B1			
		EP 0 445 131 B1			
		WO 91/05545			
		WO 94/20073			
		WO 96/10391			
		WO 98/39352			

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Substitute for form 1449PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known		
				Application Number	10/661,099	
Sheet		3	of	13	Attorney Docket Number	16051-5US CC
					Examiner Name	Louise Wang Zhiying HUMPHREY
					First Named Inventor	Andrew Vaillant et al.
					Filing Date	September 12, 2003
					Art Unit	1648

U.S. PATENT DOCUMENTS					
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LH		US-5,356,633			
		US-5,213,804			
		US-5,225,212			
		US-5,540,935			
		US-5,556,948			
		US-6,316,190			
		US-5,264,221			
		US-5,665,710			
		US-4,806,463			
		US-5,248,670			
		US-5,695,979			
		US-5,591,623			
		US-5,514,788			
		US-5,652,355			
		US-6,143,881			
		US-6,346,614			
		US-5,591,721			
		US-6,608,035			
		US-3,687,808			
		US-5,625,050			

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LH		WO 99/14226			
LH		WO 96/40062			
LH		WO 97/04787			
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Sheet	4	of	13	Attorney Docket Number	16051-SUS CC

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			Examiner Name	Louise Wang Zhiying HUMPHREY	
Sheet	5	of	13	Attorney Docket Number	16051-5US CC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
LH		ADJOU <i>et al.</i> , "A novel generation of heparan sulfate mimetics for the treatment of prion diseases", 2003, <i>J. Gen. Virol.</i> 84:2595-2603.	
		AGRAWAL, "Importance of nucleotide sequence and chemical modifications of antisense oligonucleotides", 1999, <i>Biochim. Biophys. Acta</i> 1489:53-68.	
		AGRAWAL and KANDIMALLA, "Antisense therapeutics: is it as simple as complementary base recognition?", 2000, <i>Mol. Med. Today</i> 6:72-81.	
		AKHTAR <i>et al.</i> , "The delivery of antisense therapeutics", 2000, <i>Advanced Drug Delivery Reviews</i> 44:3-21.	
		ALLAKHVERDI <i>et al.</i> , "Inhibition of Antigen-induced Eosinophilia and Airway Hyperresponsiveness by Antisense Oligonucleotides Directed against the Common β Chain of IL-3, IL-5, GM-CSF Receptors in a Rat Model of Allergic Asthma", 2002, <i>Am. J. Respir. Crit. Care Med.</i> 165:1015-1021.	
		ANDREOLA <i>et al.</i> , "DNA aptamers selected against the HIV-1 RNase H display in vitro antiviral activity", 2001, <i>Biochemistry</i> , 40:10087-10094.	
		BAKER <i>et al.</i> , "2-O-(2-Methoxy)ethyl-modified Anti-intercellular Adhesion Molecule 1 (ICAM-1) Oligonucleotides Selectively Increase the ICAM-1 mRNA Level and Inhibit Formation of the ICAM-1 Translation Initiation Complex in Human Umbilical Vein Endothelial Cells", 1997, <i>J. Biol. Chem.</i> 272 (18):11994-12000.	
		BALL <i>et al.</i> , "Clinical Potential of Respirable Antisense Oligonucleotides (RASONS) in Asthma", 2003, <i>Am. J. Pharmacogenomics</i> 3 (2):97-106.	
		BANKS <i>et al.</i> , "Delivery across the Blood-Brain Barrier of Antisense Directed against Amyloid β : Reversal of Learning and Memory Deficits in Mice Overexpressing Amyloid Precursor Protein", 2001, <i>J. Pharmacol. Exp. Ther.</i> 297 (3):1113-1121.	
		BARDOS <i>et al.</i> , "Structure-Activity Relationships and Mode of Action of 5-Mercapto-Substituted Oligo- and Polynucleotides as Antitemplates Inhibiting Replication of Human Immunodeficiency Virus Type 1", 1992, <i>Antimicrob. Agents and Chemother.</i> 36 (1):108-114.	

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NON PATENT LITERATURE DOCUMENTS			
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LH		BARRET <i>et al.</i> , "Evaluation of Quinacrine Treatment for Prion Diseases", 2003, <i>J. of Virol.</i> 77 (15):8462-8469.	
		BATE <i>et al.</i> , "Squalestatin Cures Prion-infected Neurons and Protects Against Prion Neurotoxicity", 2004, <i>J. of Biol. Chem.</i> 279 (15):14983-14990.	
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		BRIGGER <i>et al.</i> , "Poly(ethylene glycol)-Coated Hexadecylcyanoacrylate Nanospheres Display a Combined Effect for Brain Tumor Targeting", 2002, <i>J. Pharmacol. Exp. Ther.</i> 303 (3):928-936.	
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		CAUGHEY <i>et al.</i> , "Sulfated Polyanion Inhibition of Scrapie-Associated PrP Accumulation in Cultured Cells", 1993, <i>J. Virol.</i> 67 (2):643-650.	
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		CHEONG <i>et al.</i> , "Structure of influenza virus panhandle RNA studied by NMR spectroscopy and molecular modeling", 1999, <i>Nuc. Acids. Res.</i> 27 (5): 1392-1397.	
		CHIANG <i>et al.</i> , "Antisense Oligonucleotides Inhibit Intercellular Adhesion Molecule 1 Expression by Two Distinct Mechanisms", 1991, <i>J. Biol. Chem.</i> 266 (27):18162-18171.	
↓		CIOFFI <i>et al.</i> , "Selective Inhibition of A-Raf and C-Raf mRNA Expression by Antisense Oligodeoxynucleotides in Rat Vascular Smooth Muscle Cells: Role of A-Raf and C-Raf in Serum-Induced Proliferation", 1997, <i>Mol. Pharmacol.</i> 51:383-389.	

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			Examiner Name	Louise Wang Zhiying HUMPHREY	
Sheet	7	of	13	Attorney Docket Number	16051-5US CC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
LH		CROOKE et al., "In Vitro Toxicological Evaluation of ISIS 1082, a Phosphorothioate Oligonucleotide Inhibitor of Herpes Simplex Virus", 1992, <i>Antimicrob. Agents Chemother.</i> 36 (3):527-532.	
		DASS, "Vehicles for oligonucleotide delivery to tumours", 2002, <i>Journal of Pharmacy and Pharmacology</i> 54:3-27.	
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		DOH-URA et al., "Treatment of Transmissible Spongiform Encephalopathy by Intraventricular Drug Infusion in Animal Models", 2004, <i>J. Virol.</i> 78 (10):4999-5006.	
		ELBASHIR et al., "RNA Interference is mediated by 21- and 22-nucleotide RNAs", 2001, <i>Genes & Development</i> 15:188-200.	
		ELBASHIR et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", 2001, <i>Nature</i> 411:494-498.	
		FINOTTO et al., "Local administration of antisense phosphorothioate oligonucleotides to the c-kit ligand, stem cell factor, suppresses airway inflammation and IL-4 production in a murine model of asthma", 2001, <i>J. Allergy Clin. Immunol.</i> 107 (2):279-286.	
		FISSET et al., "Modulation of allergic response in nasal mucosa by antisense oligodeoxynucleotides for IL-4", 2003, <i>J. Allergy Clin. Immunol.</i> 111 (3):580-586.	
		GARRETT et al., "In vivo use of oligonucleotides to inhibit choroidal neovascularisation in the eye", 2001, <i>J. Gene Med.</i> 3:373-383.	

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LH		GORLACH <i>et al.</i> , "Antisense repression in <i>Cryptococcus neoformans</i> as a laboratory tool and potential antifungal strategy", 2002, <i>Microbiology</i> 148:213-219.	
		GRIGORIEV <i>et al.</i> , "Effects of the polyene antibiotic derivative MS-8209 on the astrocyte lysosomal system of scrapie-infected hamsters", 2002, <i>J. Mol. Neurosci.</i> 18:271-281.	
		HARBOTH <i>et al.</i> , "Identification of essential genes in cultured mammalian cells using small interfering RNAs", 2001, <i>Journal of Cell Science</i> 114 (24) 4557-4565.	
		HORVATH <i>et al.</i> , "Potent inhibition of HIV-1 entry by (s ⁴ dU) ₃₅ ", 2005, <i>Virology</i> 334:214-223.	
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		HUWYLER <i>et al.</i> , "Brain drug delivery of small molecules using immunoliposomes", 1996, <i>Proc. Natl. Acad. Sci. USA</i> 93:14164-14169.	
		INOUE <i>et al.</i> , "Synthesis and properties of novel nucleic acid probes", 1985, <i>Symposium Series - Nucleic Acids Research</i> No. 16:165-168.	
		INOUE <i>et al.</i> , "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and RNase H", 1987, <i>FEBS Letters</i> 215 (2) :327-330.	
		JAASKELAINEN <i>et al.</i> , "A lipid carrier with a membrane active component and a small complex size are required for efficient cellular delivery of anti-sense phosphorothioate oligonucleotides", 2000, <i>European Journal of Pharmaceutical Sciences</i> 10:187-193.	
		KANAGARATNAM <i>et al.</i> , "Malaria merozoite surface protein antisense oligodeoxynucleotides lack antisense activity but function as polyanions to inhibit red cell invasion", 1998, <i>Int. J. Biochem. Cell Biol.</i> 30:979-985.	
		KOCISKO <i>et al.</i> , "New Inhibitors of Scrapie-Associated Prion Protein Formation in a Library of 2,000 Drugs and Natural Products", 2003, <i>J. Virol.</i> 77 (19) :10288-10294.	

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				Filing Date	September 12, 2003
				First Named Inventor	Andrew Vaillant et al.
				Art Unit	1648
				Examiner Name	Louise Wang Zhiying HUMPHREY
Sheet	9	of	13	Attorney Docket Number	16051-5US CC

NON PATENT LITERATURE DOCUMENTS			
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LH		KOSTER <i>et al.</i> , "Emerging therapeutic agents for transmissible spongiform encephalopathies: a review", 2003, <i>J. Vet Pharmacol. Ther.</i> 26:315-26.	
		KURRECK, "Antisense technologies. Improvement through novel chemical modifications", 2003, <i>Eur. J. Biochem.</i> 270:1628-1644.	
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↓		MORASSUTTI <i>et al.</i> , "Effect of phosphorothioate modifications on the ability of GTn oligodeoxynucleotides to specifically recognize single-stranded DNA-binding proteins and to affect human cancer cellular growth" 1999, <i>Biochimie</i> 81:1115-1122.	

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LH		MOU and GRAY, "The high binding affinity of phosphorothioate-modified oligomers for FI gene 5 protein is moderated by the addition of C-5 propyne or 2'-O-methyl modifications", 2002, <i>Nucleic Acids Res.</i> 30 (3):749-758.	
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		NOGUCHI et al., "Remarkable induction of apoptosis in cancer cells by a novel cationic liposome complexed with a bcl-2 antisense oligonucleotide", 2003, <i>Journal of Controlled Release</i> 88:313-320.	
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		PAPUCCI et al., "Phosphodiester Oligonucleotides Inhibit Mitosis and Trigger Apoptosis by a Non-Antisense, p53-Mediated Mechanism", 2002, <i>Antisense & Nucleic Acid Drug Development</i> 12:21-31.	
		PEREZ et al., "Sequence-independent induction of Sp1 transcription factor activity by phosphorothioate oligodeoxynucleotides", 1994, <i>Proc. Natl. Acad. Sci. USA</i> 91:5957-5961.	
✓		POLI et al., "In vitro Evaluation of the Anti-prionic Activity of Newly Synthesized Congo Red Derivatives", 2003, <i>Arzneim.-Forsch./Drug Res.</i> 53 (12):875-888.	

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LH		PRIOLA <i>et al.</i> , "Porphyrin and Phthalocyanine Antiscrapie Compounds", 2000, <i>Science</i> 287: 1503-1506.	
		PROSKE <i>et al.</i> , "Prion-Protein-Specific Aptamer Reduces PrP ^{Sc} Formation", 2002, <i>Chemic. Biol.Chem.</i> 3:717-725.	
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		SHYNG <i>et al.</i> , "Sulfated Glycans Stimulate Endocytosis of the Cellular Isoform of the Prion Protein, PrP ^C , in Cultured Cells", 1995, <i>J. Biol. Chem.</i> 270 (50) :30221-30229.	
↓		SIERAKOWSKA <i>et al.</i> , "Repair of thalassemic human β -globin mRNA in mammalian cells by antisense oligonucleotides", 1996, <i>Proc. Natl. Acad. Sci. USA</i> 93:12840-12844.	

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LH		SMETSERS et al., "An antisense Bcr-Abl phosphodiester-tailed methylphosphonate oligonucleotide reduces the growth of chronic myeloid leukaemia patient cells by a non-antisense mechanism", 1997, <i>British Journal of Haematology</i> 96:377-381.	
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		VAN DEVENTER et al., "A randomised, controlled, double blind, escalating dose study of alicaforsen enema in active ulcerative colitis", 2004, <i>Gut</i> . 53:1646-1651.	
		VINOGRADOV et al., "Nanogels for Oligonucleotide Delivery to the Brain", 2004, <i>Bioconjug. Chem.</i> 15:50-60.	
		WANG et al., "Sequence-Independent Inhibition of In Vitro Vascular Smooth Muscle Cell Proliferation, Migration, and In Vivo Neointimal Formation by Phosphorothioate Oligodeoxynucleotides", 1996, <i>J. Clin. Invest.</i> 98 (2):443-450.	
		WHITE et al., "Inhibition of the Multiple Antibiotic Resistance (<i>mar</i>) Operon in <i>Escherichia coli</i> by Antisense DNA Analogs", 1997, <i>Antimicrobial Agents and Chemotherapy</i> 41 (12) :2699-2704.	
		WHITE et al., "Development of novel methods for delivering therapeutic oligonucleotides to the central nervous system", 2003, <i>Society for Neuroscience</i> , Program #325.5, Abstract.	
↓		WHITE et al., "Antisense oligonucleotide treatments for psoriasis", 2004, <i>Expert. Opin. Biol. Ther.</i> 4(1):75-81.	

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LH		XU et al., "Inhibition of DNA Replication and Induction of S Phase Cell Cycle Arrest by G-rich Oligonucleotides", 2001, <i>The Journal of Biological Chemistry</i> 276 (46) :43221-43230.	
		YANG et al., "Construction and selection of bead-bound combinatorial oligonucleoside phosphorothioate and phosphorodithioate aptamer libraries designed for rapid PCR-based sequencing", 2002, <i>Nucl. Acids Res.</i> 30 (23):1-8.	
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		ZHANG et al., "The Study on Brain Targeting of the Amphotericin B Liposomes", 2003, <i>J. Drug. Target.</i> 11 (2):117-122.	
		ZHANG et al., "Global Non-Viral Gene Transfer to the Primate Brain Following Intravenous Administration", 2003, <i>Mol. Ther.</i> 7 (1):11-18.	
		<i>The Concise Encyclopedia of Polymer Science and Engineering</i> , Jacqueline I. Kroschwitz, 1998, ISBN: 0-471-31856-6, 1341 pages, pp. 858-859.	

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